

# Global Advanced Phase Change Materials (PCM) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Advanced Phase Change Materials (PCM) market size is expected to reach \$ 2592 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

Advanced phase change materials (PCMs) are a class of substances that absorb or release latent heat through phase changes (such as solid-liquid or solid-solid) within a specific temperature range, exhibiting characteristics such as high energy density and isothermal energy storage. A phase change material (PCM) is a substance that retains its chemical properties while changing its physical state with temperature. When the physical state of a PCM changes, it can absorb or release a large amount of heat. For example, water is a phase change material at zero degrees Celsius. When ice melts into water, it absorbs a large amount of heat; when water freezes into ice, it releases a large amount of heat. The heat absorbed or released during the solid-liquid state changes of ice and water due to temperature variations is called latent heat. When water continues to be heated, its state remains liquid, but its temperature continues to rise. This heat causing the temperature change is called sensible heat. Sensible heat only affects the temperature change and does not cause a change in the state of the substance. The upstream sector comprises raw materials (petrochemicals, inorganic salts, and metal alloys), while the midstream sector involves manufacturing processes (melt blending, microencapsulation, and porous matrix composites). Microencapsulation technology can address phase separation issues in inorganic materials and improve cycle stability. Downstream applications are widespread, including construction, refrigeration and logistics, electronics, and textiles. In 2024, global sales of advanced phase change materials (PCMs) reached 500,000 tons, with an average selling price of \$3,000 per ton. The industry's gross profit margin is approximately 20-30%.

Currently, The industry concentration is not high, the technical barriers and financial barriers of Advanced Phase Change Materials (PCM) are also not high. The companies in the world that produce Advanced Phase Change Materials (PCM) mainly concentrate in China, India, Southeast Asia, Europe, Japan and USA. Raw materials are also concentrated in these regions. In particular, as the market leader in Advanced Phase Change Materials (PCM), BASF take the global market share of about 9%, other key manufacturers include Honeywell, Cryopak Entropy Solutions Inc., Climator Sweden AB, Phase Change Energy Solutions, Outlast Technologies, Dow Building Solutions, Chemours Company, PCM Energy Ltd and Rubitherm.

This report studies the global Advanced Phase Change Materials (PCM) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Advanced Phase Change Materials (PCM) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Advanced Phase Change Materials (PCM) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Advanced Phase Change Materials (PCM) total production and demand, 2021-2032, (Tons)

Global Advanced Phase Change Materials (PCM) total production value, 2021-2032, (USD Million)

Global Advanced Phase Change Materials (PCM) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Advanced Phase Change Materials (PCM) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Advanced Phase Change Materials (PCM) domestic production, consumption, key domestic manufacturers and share

Global Advanced Phase Change Materials (PCM) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Advanced Phase Change Materials (PCM) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Advanced Phase Change Materials (PCM) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Advanced Phase Change Materials (PCM) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Henkel AG & Company, Honeywell, Croda International, Sasol Germany GmbH, Microtek Laboratories Inc, Dupont, Parker, Laird PLC, Phase Change Energy Solutions, Cryopak, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Advanced Phase Change Materials (PCM) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (USD/MT) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Advanced Phase Change Materials (PCM) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Advanced Phase Change Materials (PCM) Market, Segmentation by Type:

Organic

Inorganic

Bio-Based

Global Advanced Phase Change Materials (PCM) Market, Segmentation by Technology:

Melted Blending

Microencapsulation

Porous Matrix Composites

Global Advanced Phase Change Materials (PCM) Market, Segmentation by Product Forms:

Microencapsulated PCM

Styled Composite PCM

PCM Packages/Panels

Global Advanced Phase Change Materials (PCM) Market, Segmentation by Application:

Construction Industry

Packaging Industry

Textile Industry

Electronics Industry

Other

Companies Profiled:

Henkel AG & Company

Honeywell

Croda International

Sasol Germany GmbH

Microtek Laboratories Inc

Dupont

Parker

Laird PLC

Phase Change Energy Solutions

Cryopak

Rubitherm Technologies GmbH

SGL Carbon

Cold Chain Technologies, Inc.

PLUSS Advanced Technologies

Outlast Technologies

Zhongjia New Technology

Baojia International

Climator Sweden AB

**Key Questions Answered:**

1. How big is the global Advanced Phase Change Materials (PCM) market?
2. What is the demand of the global Advanced Phase Change Materials (PCM) market?
3. What is the year over year growth of the global Advanced Phase Change Materials (PCM) market?
4. What is the production and production value of the global Advanced Phase Change Materials (PCM) market?
5. Who are the key producers in the global Advanced Phase Change Materials (PCM) market?
6. What are the growth factors driving the market demand?

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